

Amendments to the Claims:

Without prejudice, this listing of the claims replaces all prior versions and listings of the claims in the present application:

Listing of Claims:

1-10 (Canceled)

11. (Currently Amended) A radar sensor for motor vehicles, comprising:

a transmitter and receiver unit, a directional characteristic of the transmitter and receiver unit having multiple lobes, at least one of the lobes being directed parallel to a roadway surface, and at least one other one of the lobes being directed obliquely to the roadway surface, wherein the transmitter and receiver unit includes multiple radar sources which are situated offset with respect to one another approximately in a focal plane of the condenser element, one of radar sources configured to generate the lobe directed obliquely to the roadway surface.

12. (Previously Presented) The radar sensor as recited in claim 11, further comprising:

a condenser element including one of a lens or a reflector, the condenser element configured to bundle emitted radar waves into the lobes.

13. (Canceled)

14. (Previously Presented) The radar sensor as recited in claim 12, wherein the condenser element includes a beam splitter which deflects a portion of the emitted radar waves into the lobe which is directed obliquely to the roadway surface.

15. (Currently Amended) A radar sensor for motor vehicles, comprising:

a transmitter and receiver unit, a directional characteristic of the transmitter and receiver unit having multiple lobes, at least one of the lobes being directed parallel to a roadway surface, and at least one other one of the lobes being directed obliquely to the roadway surface; and

a condenser element including one of a lens or a reflector, the condenser element configured to bundle emitted radar waves into the lobes ~~The radar sensor as recited in claim 12,~~ wherein the condenser element has a different focal distance for the lobe which is directed obliquely to the roadway surface than for the other lobes.

16. (Currently Amended) A radar sensor for motor vehicles, comprising:

a transmitter and receiver unit, a directional characteristic of the transmitter and receiver unit having multiple lobes, at least one of the lobes being directed parallel to a roadway surface, and at least one other one of the lobes being directed obliquely to the roadway surface; and

a condenser element including one of a lens or a reflector, the condenser element configured to bundle emitted radar waves into the lobes ~~The radar sensor as recited in claim 12,~~

wherein the condenser element includes a lens which has a lens zone having refraction characteristics that differ from the rest of the lens.

17. (Canceled)

18. (Previously Presented) A method for checking an alignment of a radar sensor; comprising:
providing a transmitter and receiver unit, a directional characteristic of the transmitter and receiver unit having multiple lobes, at least one of the lobes being directed parallel to a roadway surface, and at least one other one of the lobes being directed obliquely to the roadway surface;
determining a distance, on the roadway surface, between a radar sensor of the transmitter and receiver unit and a point of incidence of the lobe which is directed obliquely to the roadway surface; and
determining a misalignment of the radar sensor based on a deviation of the determined distance from a vehicle-specific nominal value.

19. (Previously Presented) A method for blindness recognition for a radar sensor, comprising:
providing a transmitter and receiver unit, a directional characteristic of the transmitter and receiver unit having multiple lobes, at least one of the lobes being directed parallel to a roadway surface, and at least one other one of the lobes being directed obliquely to the roadway surface;
and
measuring an intensity of a radar echo reflected by the roadway surface for the lobe which is directed obliquely to the roadway surface, to recognize blindness.

20. (Previously Presented) A method of using a radar sensor, comprising:
providing a transmitter and receiver unit, a directional characteristic of the transmitter and receiver unit having multiple lobes, at least one of the lobes being directed parallel to a roadway surface, and at least one other one of the lobes being directed obliquely to the roadway surface;
and
performing at least one of the following:
measuring a ground speed of a motor vehicle using the transmitter and receiver unit,
checking an alignment of a radar sensor by determining a distance, on the roadway surface, between the radar sensor of the transmitter and receiver unit and a point of incidence of the lobe which is directed obliquely to the roadway surface, and
determining a misalignment by the radar sensor based on a deviation of the determined distance conform a vehicle-specific nominal value, and
measuring an intensity of a radar echo reflected by the roadway surface for the lobe which is directed obliquely to the roadway surface to recognize blindness.